

**West Virginia Department of Environmental Protection  
Division of Air Quality**

*Joe Manchin, III  
Governor*

*Randy C. Huffman  
Cabinet Secretary*

# Permit to Operate



*Pursuant to  
**Title V**  
of the Clean Air Act*

*Issued to:*  
**Union Carbide Corporation**  
Technology Park Operations, South Charleston  
Group 2 of 3  
(Environmental Operations, Shared Services/Energy Systems)  
R30-03900004-2010

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*John A. Benedict  
Director*

*Issued: Draft/Proposed • Effective: Draft*

*Expiration: Draft • Renewal Application Due: Draft*

Permit Number: **R30-03900004-2010**  
Permittee: Union Carbide Corporation  
(A Subsidiary of The Dow Chemical Company)  
Facility Name: Technology Park Operations, South Charleston  
Permittee Mailing Address: **P.O. Box 8361**  
**Charleston, WV 25303**

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*This permit is issued in accordance with the West Virginia Air Pollution Control Act (West Virginia Code §§ 22-5-1 et seq.) and 45CSR30 — Requirements for Operating Permits. The permittee identified at the above-referenced facility is authorized to operate the stationary sources of air pollutants identified herein in accordance with all terms and conditions of this permit.*

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Facility Location:	South Charleston, Kanawha County, West Virginia
Mailing Address:	P.O. Box 8361 South Charleston, WV 25303
Telephone Number:	304-747-7000
Type of Business Entity:	Corporation
Facility Description:	The research and development groups provide technology for the development of new products, process technology for manufacturing, and support for existing products and processes. The activities covered under this Permit are Shared Services, Energy Systems, and Environmental Operations.
SIC Codes:	2869
UTM Coordinates:	438.7 km Easting • 4,245.5 km Northing • Zone 17

Permit Writer: Mike Egnor

*Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit issued, modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality Board pursuant to article one [§§ 22B-1-1 et seq.], Chapter 22B of the Code of West Virginia. West Virginia Code §22-5-14.*

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*Issuance of this Title V Operating Permit does not supersede or invalidate any existing permits under 45CSR13, 14 or 19, although all applicable requirements from such permits governing the facility's operation and compliance have been incorporated into the Title V Operating Permit.*

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## Table of Contents

<b>1.0</b>	<b>Emission Units and Active R13, R14, and R19 Permits .....</b>	<b>4</b>
1.1.	Emission Units .....	4
1.2.	Active R13, R14, and R19 Permits .....	5
<b>2.0</b>	<b>General Conditions.....</b>	<b>6</b>
2.1.	Definitions .....	6
2.2.	Acronyms .....	6
2.3.	Permit Expiration and Renewal .....	7
2.4.	Permit Actions .....	7
2.5.	Reopening for Cause .....	7
2.6.	Administrative Permit Amendments .....	8
2.7.	Minor Permit Modifications .....	8
2.8.	Significant Permit Modification.....	8
2.9.	Emissions Trading .....	8
2.10.	Off-Permit Changes .....	8
2.11.	Operational Flexibility .....	9
2.12.	Reasonably Anticipated Operating Scenarios .....	10
2.13.	Duty to Comply.....	10
2.14.	Inspection and Entry .....	10
2.15.	Schedule of Compliance .....	11
2.16.	Need to Halt or Reduce Activity not a Defense .....	11
2.17.	Emergency .....	11
2.18.	Federally-Enforceable Requirements.....	12
2.19.	Duty to Provide Information .....	12
2.20.	Duty to Supplement and Correct Information .....	12
2.21.	Permit Shield .....	12
2.22.	Credible Evidence.....	13
2.23.	Severability .....	13
2.24.	Property Rights .....	13
2.25.	Acid Deposition Control.....	13
<b>3.0</b>	<b>Facility-Wide Requirements .....</b>	<b>15</b>
3.1.	Limitations and Standards.....	15
3.2.	Monitoring Requirements .....	16
3.3.	Testing Requirements .....	16
3.4.	Recordkeeping Requirements .....	17
3.5.	Reporting Requirements .....	18
3.6.	Compliance Plan .....	20
3.7.	Permit Shield .....	20
<b>4.0</b>	<b>Source-Specific Requirements [Shared Services/Energy Systems] .....</b>	<b>21</b>
4.1.	Limitations and Standards.....	21
4.2.	Monitoring Requirements .....	21
4.3.	Testing Requirements .....	21
4.4.	Recordkeeping Requirements .....	22
4.5.	Reporting Requirements .....	22
4.6.	Compliance Plan .....	22

<b>5.0</b>	<b>Source-Specific Requirements [Environmental Operations].....</b>	<b>23</b>
5.1.	Limitations and Standards.....	23
5.2.	Monitoring Requirements .....	23
5.3.	Testing Requirements .....	23
5.4.	Recordkeeping Requirements .....	23
5.5.	Reporting Requirements .....	23
5.6.	Compliance Plan .....	23
	<b>Attachment 1 (Emergency Generator: No. 2 Fuel Oil Logsheets). ....</b>	<b>24</b>
	<b>Attachment 2 (Emergency Generator: Hours of Operation).....</b>	<b>25</b>
	<b>Attachment 3 (Emergency Generator: Hours of Operation Testing). ....</b>	<b>26</b>

## 1.0 Emission Units and Active R13, R14, and R19 Permits

### 1.1 Emission Units

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
<b>Environmental Operations</b>					
Holz Impoundment	None	Holz Impoundment	1972	Not Applicable	
HZ1	1HZ	Tank	1999	14,000 gal	
HZ2	2HZ	Tank	1999	14,000 gal	
EPP	EPV	731 Gasoline Powered Pump – Water	< 2005	115 hp	
ST4	TV4	730 Additive Storage Tank	Not applicable	< 1,000 gal	
<b>Shared Services/Energy Systems</b>					
ST2	TV2	704 Additive Storage Tank #1	not applicable	1,500 gallons	
ST7	TV7	704 Additive Storage Tank #2	not applicable	1,000 gallons or less	
STC	TVC	742 Additive Storage Tank	not applicable	1,000 gallons or less	
STD	TVD	770 Additive Storage Tank	not applicable	1,000 gallons or less	
STG	TVG	2000 Additive Storage Tank	not applicable	1,000 gallons or less	
STH	TVH	6000 Additive Storage Tank	not applicable	1,000 gallons or less	
STI	TVI	B6000 Diesel Storage Tank	1997	8,000 gallons	
STJ	TVJ	B6000 Diesel Feed Tank #1	1997	100 gallons	
STL	TVL	B6000 Diesel Feed Tank #2	1997	100 gallons	
EG1	GV1	B2000 Propane Powered Emergency Electrical Generator	not applicable	11.5kW	
EG4	GV4	B740 Propane Powered Emergency Electrical Generator	not applicable	4.5 kVA	
EG7	GV7	B6000 Diesel Powered Emergency Electrical Generator	1997	1,100 kW	
EG8	GV8	B6000 Diesel Powered Emergency Electrical Generator	1997	1,100 kW	

## **1.2. Active R13, R14, and R19 Permits**

The underlying authority for any conditions from R13, R14, and/or R19 permits contained in this operating permit is cited using the original permit number (e.g. R13-1234). The current applicable version of such permit(s) is listed below.

<b>Permit Number</b>	<b>Date of Issuance</b>
R13-2082A	4/10/2003

## 2.0 General Conditions

### 2.1. Definitions

- 2.1.1. All references to the "West Virginia Air Pollution Control Act" or the "Air Pollution Control Act" mean those provisions contained in W.Va. Code §§ 22-5-1 to 22-5-18.
- 2.1.2. The "Clean Air Act" means those provisions contained in 42 U.S.C. §§ 7401 to 7671q, and regulations promulgated thereunder.
- 2.1.3. "Secretary" means the Secretary of the Department of Environmental Protection or such other person to whom the Secretary has delegated authority or duties pursuant to W.Va. Code §§ 22-1-6 or 22-1-8 (45CSR§30-2.12.). The Director of the Division of Air Quality is the Secretary's designated representative for the purposes of this permit.
- 2.1.4. Unless otherwise specified in a permit condition or underlying rule or regulation, all references to a "rolling yearly total" shall mean the sum of the monthly data, values or parameters being measured, monitored, or recorded, at any given time for the previous twelve (12) consecutive calendar months.

### 2.2. Acronyms

<b>CAAA</b>	Clean Air Act Amendments	<b>NO<sub>x</sub></b>	Nitrogen Oxides
<b>CBI</b>	Confidential Business Information	<b>NSPS</b>	New Source Performance
<b>CEM</b>	Continuous Emission Monitor		Standards
<b>CES</b>	Certified Emission Statement	<b>PM</b>	Particulate Matter
<b>C.F.R. or CFR</b>	Code of Federal Regulations	<b>PM<sub>10</sub></b>	Particulate Matter less than
<b>CO</b>	Carbon Monoxide		10µm in diameter
<b>C.S.R. or CSR</b>	Codes of State Rules	<b>pph</b>	Pounds per Hour
<b>DAQ</b>	Division of Air Quality	<b>ppm</b>	Parts per Million
<b>DEP</b>	Department of Environmental Protection	<b>PSD</b>	Prevention of Significant Deterioration
<b>FOIA</b>	Freedom of Information Act	<b>psi</b>	Pounds per Square Inch
<b>HAP</b>	Hazardous Air Pollutant	<b>SIC</b>	Standard Industrial Classification
<b>HON</b>	Hazardous Organic NESHAP		
<b>HP</b>	Horsepower	<b>SIP</b>	State Implementation Plan
<b>lbs/hr or lb/hr</b>	Pounds per Hour	<b>SO<sub>2</sub></b>	Sulfur Dioxide
<b>LDAR</b>	Leak Detection and Repair	<b>TAP</b>	Toxic Air Pollutant
<b>m</b>	Thousand	<b>TPY</b>	Tons per Year
<b>MACT</b>	Maximum Achievable Control Technology	<b>TRS</b>	Total Reduced Sulfur
		<b>TSP</b>	Total Suspended Particulate
<b>mm</b>	Million	<b>USEPA</b>	United States Environmental Protection Agency
<b>mmBtu/hr</b>	Million British Thermal Units per Hour		
<b>mmft<sup>3</sup>/hr or mmcf/hr</b>	Million Cubic Feet Burned per Hour	<b>UTM</b>	Universal Transverse Mercator
<b>NA or N/A</b>	Not Applicable	<b>VEE</b>	Visual Emissions Evaluation
<b>NAAQS</b>	National Ambient Air Quality Standards	<b>VOC</b>	Volatile Organic Compounds
<b>NESHAPS</b>	National Emissions Standards for Hazardous Air Pollutants		



### **2.3. Permit Expiration and Renewal**

- 2.3.1. Permit duration. This permit is issued for a fixed term of five (5) years and shall expire on the date specified on the cover of this permit, except as provided in 45CSR§30-6.3.b. and 45CSR§30-6.3.c.  
**[45CSR§30-5.1.b.]**
- 2.3.2. A permit renewal application is timely if it is submitted at least six (6) months prior to the date of permit expiration.  
**[45CSR§30-4.1.a.3.]**
- 2.3.3. Permit expiration terminates the source's right to operate unless a timely and complete renewal application has been submitted consistent with 45CSR§30-6.2. and 45CSR§30-4.1.a.3.  
**[45CSR§30-6.3.b.]**
- 2.3.4. If the Secretary fails to take final action to deny or approve a timely and complete permit application before the end of the term of the previous permit, the permit shall not expire until the renewal permit has been issued or denied, and any permit shield granted for the permit shall continue in effect during that time.  
**[45CSR§30-6.3.c.]**

### **2.4. Permit Actions**

- 2.4.1. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.  
**[45CSR§30-5.1.f.3.]**

### **2.5. Reopening for Cause**

- 2.5.1. This permit shall be reopened and revised under any of the following circumstances:
  - a. Additional applicable requirements under the Clean Air Act or the Secretary's legislative rules become applicable to a major source with a remaining permit term of three (3) or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 45CSR§30-6.6.a.1.A. or B.
  - b. Additional requirements (including excess emissions requirements) become applicable to an affected source under Title IV of the Clean Air Act (Acid Deposition Control) or other legislative rules of the Secretary. Upon approval by U.S. EPA, excess emissions offset plans shall be incorporated into the permit.
  - c. The Secretary or U.S. EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
  - d. The Secretary or U.S. EPA determines that the permit must be revised or revoked and reissued to assure compliance with the applicable requirements.

**[45CSR§30-6.6.a.]**

## **2.6. Administrative Permit Amendments**

- 2.6.1. The permittee may request an administrative permit amendment as defined in and according to the procedures specified in 45CSR§30-6.4.  
[45CSR§30-6.4.]

## **2.7. Minor Permit Modifications**

- 2.7.1. The permittee may request a minor permit modification as defined in and according to the procedures specified in 45CSR§30-6.5.a.  
[45CSR§30-6.5.a.]

## **2.8. Significant Permit Modification**

- 2.8.1. The permittee may request a significant permit modification, in accordance with 45CSR§30-6.5.b., for permit modifications that do not qualify for minor permit modifications or as administrative amendments.  
[45CSR§30-6.5.b.]

## **2.9. Emissions Trading**

- 2.9.1. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in the permit and that are in accordance with all applicable requirements.  
[45CSR§30-5.1.h.]

## **2.10. Off-Permit Changes**

- 2.10.1. Except as provided below, a facility may make any change in its operations or emissions that is not addressed nor prohibited in its permit and which is not considered to be construction nor modification under any rule promulgated by the Secretary without obtaining an amendment or modification of its permit. Such changes shall be subject to the following requirements and restrictions:
- a. The change must meet all applicable requirements and may not violate any existing permit term or condition.
  - b. The permittee must provide a written notice of the change to the Secretary and to U.S. EPA within two (2) business days following the date of the change. Such written notice shall describe each such change, including the date, any change in emissions, pollutants emitted, and any applicable requirement that would apply as a result of the change.
  - c. The change shall not qualify for the permit shield.
  - d. The permittee shall keep records describing all changes made at the source that result in emissions of regulated air pollutants, but not otherwise regulated under the permit, and the emissions resulting from those changes.
  - e. No permittee may make any change subject to any requirement under Title IV of the Clean Air Act (Acid Deposition Control) pursuant to the provisions of 45CSR§30-5.9.

- f. No permittee may make any changes which would require preconstruction review under any provision of Title I of the Clean Air Act (including 45CSR14 and 45CSR19) pursuant to the provisions of 45CSR§30-5.9.

**[45CSR§30-5.9.]**

**2.11. Operational Flexibility**

- 2.11.1. The permittee may make changes within the facility as provided by § 502(b)(10) of the Clean Air Act. Such operational flexibility shall be provided in the permit in conformance with the permit application and applicable requirements. No such changes shall be a modification under any rule or any provision of Title I of the Clean Air Act (including 45CSR14 and 45CSR19) promulgated by the Secretary in accordance with Title I of the Clean Air Act and the change shall not result in a level of emissions exceeding the emissions allowable under the permit.

**[45CSR§30-5.8]**

- 2.11.2. Before making a change under 45CSR§30-5.8., the permittee shall provide advance written notice to the Secretary and to U.S. EPA, describing the change to be made, the date on which the change will occur, any changes in emissions, and any permit terms and conditions that are affected. The permittee shall thereafter maintain a copy of the notice with the permit, and the Secretary shall place a copy with the permit in the public file. The written notice shall be provided to the Secretary and U.S. EPA at least seven (7) days prior to the date that the change is to be made, except that this period may be shortened or eliminated as necessary for a change that must be implemented more quickly to address unanticipated conditions posing a significant health, safety, or environmental hazard. If less than seven (7) days notice is provided because of a need to respond more quickly to such unanticipated conditions, the permittee shall provide notice to the Secretary and U.S. EPA as soon as possible after learning of the need to make the change.

**[45CSR§30-5.8.a.]**

- 2.11.3. The permit shield shall not apply to changes made under 45CSR§30-5.8., except those provided for in 45CSR§30-5.8.d. However, the protection of the permit shield will continue to apply to operations and emissions that are not affected by the change, provided that the permittee complies with the terms and conditions of the permit applicable to such operations and emissions. The permit shield may be reinstated for emissions and operations affected by the change:

- a. If subsequent changes cause the facility's operations and emissions to revert to those authorized in the permit and the permittee resumes compliance with the terms and conditions of the permit, or
- b. If the permittee obtains final approval of a significant modification to the permit to incorporate the change in the permit.

**[45CSR§30-5.8.c.]**

- 2.11.4. "Section 502(b)(10) changes" are changes that contravene an express permit term. Such changes do not include changes that would violate applicable requirements or contravene enforceable permit terms and conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements.

**[45CSR§30-2.39]**

## **2.12. Reasonably Anticipated Operating Scenarios**

2.12.1. The following are terms and conditions for reasonably anticipated operating scenarios identified in this permit.

- a. Contemporaneously with making a change from one operating scenario to another, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating and to document the change in reports submitted pursuant to the terms of this permit and 45CSR30.
- b. The permit shield shall extend to all terms and conditions under each such operating scenario; and
- c. The terms and conditions of each such alternative scenario shall meet all applicable requirements and the requirements of 45CSR30.

**[45CSR§30-5.1.i.]**

## **2.13. Duty to Comply**

2.13.1. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the West Virginia Code and the Clean Air Act and is grounds for enforcement action by the Secretary or USEPA; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

**[45CSR§30-5.1.f.1.]**

## **2.14. Inspection and Entry**

2.14.1. The permittee shall allow any authorized representative of the Secretary, upon the presentation of credentials and other documents as may be required by law, to perform the following:

- a. At all reasonable times (including all times in which the facility is in operation) enter upon the permittee's premises where a source is located or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- c. Inspect at reasonable times (including all times in which the facility is in operation) any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit;
- d. Sample or monitor at reasonable times substances or parameters to determine compliance with the permit or applicable requirements or ascertain the amounts and types of air pollutants discharged.

**[45CSR§30-5.3.b.]**

## **2.15. Schedule of Compliance**

- 2.15.1. For sources subject to a compliance schedule, certified progress reports shall be submitted consistent with the applicable schedule of compliance set forth in this permit and 45CSR§30-4.3.h., but at least every six (6) months, and no greater than once a month, and shall include the following:
- a. Dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and dates when such activities, milestones or compliance were achieved; and
  - b. An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventative or corrective measure adopted.

**[45CSR§30-5.3.d.]**

## **2.16. Need to Halt or Reduce Activity not a Defense**

- 2.16.1. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. However, nothing in this paragraph shall be construed as precluding consideration of a need to halt or reduce activity as a mitigating factor in determining penalties for noncompliance if the health, safety, or environmental impacts of halting or reducing operations would be more serious than the impacts of continued operations.

**[45CSR§30-5.1.f.2.]**

## **2.17. Emergency**

- 2.17.1. An "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

**[45CSR§30-5.7.a.]**

- 2.17.2. Effect of any emergency. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions of 45CSR§30-5.7.c. are met.

**[45CSR§30-5.7.b.]**

- 2.17.3. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

- a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;
- b. The permitted facility was at the time being properly operated;
- c. During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and

- d. Subject to the requirements of 45CSR§30-5.1.c.3.C.1, the permittee submitted notice of the emergency to the Secretary within one (1) working day of the time when emission limitations were exceeded due to the emergency and made a request for variance, and as applicable rules provide. This notice, report, and variance request fulfills the requirement of 45CSR§30-5.1.c.3.B. This notice must contain a detailed description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

**[45CSR§30-5.7.c.]**

- 2.17.4. In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof.

**[45CSR§30-5.7.d.]**

- 2.17.5. This provision is in addition to any emergency or upset provision contained in any applicable requirement.

**[45CSR§30-5.7.e.]**

## **2.18. Federally-Enforceable Requirements**

- 2.18.1. All terms and conditions in this permit, including any provisions designed to limit a source's potential to emit and excepting those provisions that are specifically designated in the permit as "State-enforceable only", are enforceable by the Secretary, USEPA, and citizens under the Clean Air Act.

**[45CSR§30-5.2.a.]**

- 2.18.2. Those provisions specifically designated in the permit as "State-enforceable only" shall become "Federally-enforceable" requirements upon SIP approval by the USEPA.

## **2.19. Duty to Provide Information**

- 2.19.1. The permittee shall furnish to the Secretary within a reasonable time any information the Secretary may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Secretary copies of records required to be kept by the permittee. For information claimed to be confidential, the permittee shall furnish such records to the Secretary along with a claim of confidentiality in accordance with 45CSR31. If confidential information is to be sent to USEPA, the permittee shall directly provide such information to USEPA along with a claim of confidentiality in accordance with 40 C.F.R. Part 2.

**[45CSR§30-5.1.f.5.]**

## **2.20. Duty to Supplement and Correct Information**

- 2.20.1. Upon becoming aware of a failure to submit any relevant facts or a submittal of incorrect information in any permit application, the permittee shall promptly submit to the Secretary such supplemental facts or corrected information.

**[45CSR§30-4.2.]**

## **2.21. Permit Shield**

- 2.21.1. Compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance provided that such applicable requirements are included and are specifically

identified in this permit or the Secretary has determined that other requirements specifically identified are not applicable to the source and this permit includes such a determination or a concise summary thereof.

**[45CSR§30-5.6.a.]**

2.21.2. Nothing in this permit shall alter or affect the following:

- a. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance; or
- b. The applicable requirements of the Code of West Virginia and Title IV of the Clean Air Act (Acid Deposition Control), consistent with § 408 (a) of the Clean Air Act.
- c. The authority of the Administrator of U.S. EPA to require information under § 114 of the Clean Air Act or to issue emergency orders under § 303 of the Clean Air Act.

**[45CSR§30-5.6.c.]**

## **2.22. Credible Evidence**

2.22.1. Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defenses otherwise available to the permittee including but not limited to any challenge to the credible evidence rule in the context of any future proceeding.

**[45CSR§30-5.3.e.3.B. and 45CSR38]**

## **2.23. Severability**

2.23.1. The provisions of this permit are severable. If any provision of this permit, or the application of any provision of this permit to any circumstance is held invalid by a court of competent jurisdiction, the remaining permit terms and conditions or their application to other circumstances shall remain in full force and effect.

**[45CSR§30-5.1.e.]**

## **2.24. Property Rights**

2.24.1. This permit does not convey any property rights of any sort or any exclusive privilege.

**[45CSR§30-5.1.f.4]**

## **2.25. Acid Deposition Control**

2.25.1. Emissions shall not exceed any allowances that the source lawfully holds under Title IV of the Clean Air Act (Acid Deposition Control) or rules of the Secretary promulgated thereunder.

- a. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid deposition control program, provided that such increases do not require a permit revision under any other applicable requirement.
- b. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement.

- c. Any such allowance shall be accounted for according to the procedures established in rules promulgated under Title IV of the Clean Air Act.

**[45CSR§30-5.1.d.]**

- 2.25.2. Where applicable requirements of the Clean Air Act are more stringent than any applicable requirement of regulations promulgated under Title IV of the Clean Air Act (Acid Deposition Control), both provisions shall be incorporated into the permit and shall be enforceable by the Secretary and U. S. EPA.

**[45CSR§30-5.1.a.2.]**



### 3.0 Facility-Wide Requirements

#### 3.1. Limitations and Standards

- 3.1.1. **Open burning.** The open burning of refuse by any person is prohibited except as noted in 45CSR§6-3.1. [45CSR§6-3.1.]
- 3.1.2. **Open burning exemptions.** The exemptions listed in 45CSR§6-3.1 are subject to the following stipulation: Upon notification by the Secretary, no person shall cause or allow any form of open burning during existing or predicted periods of atmospheric stagnation. Notification shall be made by such means as the Secretary may deem necessary and feasible. [45CSR§6-3.2.]
- 3.1.3. **Asbestos.** The permittee is responsible for thoroughly inspecting the facility, or part of the facility, prior to commencement of demolition or renovation for the presence of asbestos and complying with 40 C.F.R. § 61.145, 40 C.F.R. § 61.148, and 40 C.F.R. § 61.150. The permittee, owner, or operator must notify the Secretary at least ten (10) working days prior to the commencement of any asbestos removal on the forms prescribed by the Secretary if the permittee is subject to the notification requirements of 40 C.F.R. § 61.145(b)(3)(i). The USEPA, the Division of Waste Management and the Bureau for Public Health - Environmental Health require a copy of this notice to be sent to them. [40 C.F.R. §61.145(b) and 45CSR34]
- 3.1.4. **Odor.** No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor at any location occupied by the public. [45CSR§4-3.1 State-Enforceable only.]
- 3.1.5. **Standby plan for reducing emissions.** When requested by the Secretary, the permittee shall prepare standby plans for reducing the emissions of air pollutants in accordance with the objectives set forth in Tables I, II, and III of 45CSR11. [45CSR§11-5.2]
- 3.1.6. **Emission inventory.** The permittee is responsible for submitting, on an annual basis, an emission inventory in accordance with the submittal requirements of the Division of Air Quality. [W.Va. Code § 22-5-4(a)(14)]
- 3.1.7. **Ozone-depleting substances.** For those facilities performing maintenance, service, repair or disposal of appliances, the permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 C.F.R. Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
- a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the prohibitions and required practices pursuant to 40 C.F.R. §§ 82.154 and 82.156.
  - b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 C.F.R. § 82.158.

- c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 C.F.R. § 82.161.

**[40 C.F.R. 82, Subpart F]**

- 3.1.8. **Risk Management Plan.** This stationary source, as defined in 40 C.F.R. § 68.3, is subject to Part 68. This stationary source shall submit a risk management plan (RMP) by the date specified in 40 C.F.R. Part 68.10. This stationary source shall certify compliance with the requirements of Part 68 as part of the annual compliance certification as required by 40 C.F.R. Part 70 or 71.

**[40 C.F.R. 68]**

- 3.1.9. When emissions on an annual basis of one or more of the greenhouse gases listed below are greater than the *de minimis* amounts listed below, all greenhouse gases emitted above the *de minimis* amounts shall be reported to the Secretary under 45CSR§42-4. (see Section 3.5.):

Greenhouse Gas Compound	tons/year
carbon dioxide	10,000
methane	476
nitrous oxide	32.6
hydrofluorocarbons	0.855
perfluorocarbons	1.09
sulfur hexafluoride	0.42

**[45CSR§42-3.1., State-Enforceable only.]**

- 3.1.10. The permitted facility shall be operated in accordance with information filed in the Permit Application R13-2082, R13-2082A.

**[45CSR13, Permit No. R13-2082 - (Condition C.3.)]**

**3.2. Monitoring Requirements**

N/A

**3.3. Testing Requirements**

- 3.3.1. **Stack testing.** As per provisions set forth in this permit or as otherwise required by the Secretary, in accordance with the West Virginia Code, underlying regulations, permits and orders, the permittee shall conduct test(s) to determine compliance with the emission limitations set forth in this permit and/or established or set forth in underlying documents. The Secretary, or his duly authorized representative, may at his option witness or conduct such test(s). Should the Secretary exercise his option to conduct such test(s), the operator shall provide all necessary sampling connections and sampling ports to be located in such manner as the Secretary may require, power for test equipment and the required safety equipment, such as scaffolding, railings and ladders, to comply with generally accepted good safety practices. Such tests shall be conducted in accordance with the methods and procedures set forth in this permit or as otherwise approved or specified by the Secretary in accordance with the following:

- a. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with 40 C.F.R. Parts 60, 61, and 63, if applicable, in accordance with the Secretary's delegated authority and any established equivalency determination methods which are applicable.
- b. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with applicable requirements which do not involve federal delegation. In specifying or approving such alternative testing to the test methods, the Secretary, to the extent possible, shall utilize the same equivalency criteria as would be used in approving such changes under Section 3.3.1.a. of this permit.
- c. All periodic tests to determine mass emission limits from or air pollutant concentrations in discharge stacks and such other tests as specified in this permit shall be conducted in accordance with an approved test protocol. Unless previously approved, such protocols shall be submitted to the Secretary in writing at least thirty (30) days prior to any testing and shall contain the information set forth by the Secretary. In addition, the permittee shall notify the Secretary at least fifteen (15) days prior to any testing so the Secretary may have the opportunity to observe such tests. This notification shall include the actual date and time during which the test will be conducted and, if appropriate, verification that the tests will fully conform to a referenced protocol previously approved by the Secretary.

[WV Code § 22-5-4(a)(15) and 45CSR13]

### **3.4. Recordkeeping Requirements**

- 3.4.1. **Monitoring information.** The permittee shall keep records of monitoring information that include the following:
  - a. The date, place as defined in this permit and time of sampling or measurements;
  - b. The date(s) analyses were performed;
  - c. The company or entity that performed the analyses;
  - d. The analytical techniques or methods used;
  - e. The results of the analyses; and
  - f. The operating conditions existing at the time of sampling or measurement.

[45CSR§30-5.1.c.2.A.]

- 3.4.2. **Retention of records.** The permittee shall retain records of all required monitoring data and support information for a period of at least five (5) years from the date of monitoring sample, measurement, report, application, or record creation date. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Where appropriate, records may be maintained in computerized form in lieu of the above records.

[45CSR§30-5.1.c.2.B.]

- 3.4.3. **Odors.** For the purposes of 45CSR4, the permittee shall maintain a record of all odor complaints received, any investigation performed in response to such a complaint, and any responsive action(s) taken.  
[45CSR§30-5.1.c. State-Enforceable only.]

### 3.5. Reporting Requirements

- 3.5.1. **Responsible official.** Any application form, report, or compliance certification required by this permit to be submitted to the DAQ and/or USEPA shall contain a certification by the responsible official that states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.  
[45CSR§§30-4.4. and 5.1.c.3.D.]
- 3.5.2. A permittee may request confidential treatment for the submission of reporting required under 45CSR§30-5.1.c.3. pursuant to the limitations and procedures of W.Va. Code § 22-5-10 and 45CSR31.  
[45CSR§30-5.1.c.3.E.]
- 3.5.3. Except for the electronic submittal of the annual certification to the USEPA as required in 3.5.5 below, all notices, requests, demands, submissions and other communications required or permitted to be made to the Secretary of DEP and/or USEPA shall be made in writing and shall be deemed to have been duly given when delivered by hand, mailed first class or by private carrier with postage prepaid to the address(es) set forth below or to such other person or address as the Secretary of the Department of Environmental Protection may designate:

#### If to the DAQ:

Director  
WVDEP  
Division of Air Quality  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304  
  
Phone: 304/926-0475  
FAX: 304/926-0478

#### If to the US EPA:

Associate Director  
Office of Enforcement and Permits Review  
(3AP12)  
U. S. Environmental Protection Agency  
Region III  
1650 Arch Street  
Philadelphia, PA 19103-2029

- 3.5.4. **Certified emissions statement.** The permittee shall submit a certified emissions statement and pay fees on an annual basis in accordance with the submittal requirements of the Division of Air Quality.  
[45CSR§30-8.]
- 3.5.5. **Compliance certification.** The permittee shall certify compliance with the conditions of this permit on the forms provided by the DAQ. In addition to the annual compliance certification, the permittee may be required to submit certifications more frequently under an applicable requirement of this permit. The annual certification shall be submitted to the DAQ and USEPA on or before March 15 of each year, and shall certify compliance for the period ending December 31. The annual certification to the USEPA shall be submitted in electronic format only. It shall be submitted by e-mail to the following address: [R3-APD-Permits@epa.gov](mailto:R3-APD-Permits@epa.gov). The permittee shall maintain a copy of the certification on site for five (5) years from submittal of the certification.  
[45CSR§30-5.3.e.]

3.5.6. **Semi-annual monitoring reports.** The permittee shall submit reports of any required monitoring on or before September 15 for the reporting period January 1 to June 30 and on or before March 15 for the reporting period July 1 to December 31. All instances of deviation from permit requirements must be clearly identified in such reports. All required reports must be certified by a responsible official consistent with 45CSR§30-4.4.

[45CSR§30-5.1.c.3.A.]

3.5.7. **Emergencies.** For reporting emergency situations, refer to Section 2.17 of this permit.

3.5.8. **Deviations.**

a. In addition to monitoring reports required by this permit, the permittee shall promptly submit supplemental reports and notices in accordance with the following:

1. Any deviation resulting from an emergency or upset condition, as defined in 45CSR§30-5.7., shall be reported by telephone or telefax within one (1) working day of the date on which the permittee becomes aware of the deviation, if the permittee desires to assert the affirmative defense in accordance with 45CSR§30-5.7. A written report of such deviation, which shall include the probable cause of such deviations, and any corrective actions or preventative measures taken, shall be submitted and certified by a responsible official within ten (10) days of the deviation.
2. Any deviation that poses an imminent and substantial danger to public health, safety, or the environment shall be reported to the Secretary immediately by telephone or telefax. A written report of such deviation, which shall include the probable cause of such deviation, and any corrective actions or preventative measures taken, shall be submitted by the responsible official within ten (10) days of the deviation.
3. Deviations for which more frequent reporting is required under this permit shall be reported on the more frequent basis.
4. All reports of deviations shall identify the probable cause of the deviation and any corrective actions or preventative measures taken.

[45CSR§30-5.1.c.3.C.]

b. The permittee shall, in the reporting of deviations from permit requirements, including those attributable to upset conditions as defined in this permit, report the probable cause of such deviations and any corrective actions or preventive measures taken in accordance with any rules of the Secretary.

[45CSR§30-5.1.c.3.B.]

3.5.9. **New applicable requirements.** If any applicable requirement is promulgated during the term of this permit, the permittee will meet such requirements on a timely basis, or in accordance with a more detailed schedule if required by the applicable requirement.

[45CSR§30-4.3.h.1.B.]

3.5.10. **Greenhouse Gas Reporting Requirements.** When applicable, as determined in permit section 3.1., greenhouse gas emissions shall be reported pursuant to 45CSR§42-4. as follows:

- a. In accordance with a reporting cycle provided by the Secretary, affected sources shall report to the Secretary the quantity of all greenhouse gases emitted above *de minimis* amounts in the years specified by the Secretary.

**[45CSR§42-4.1., State-Enforceable only.]**

- b. Affected sources shall only be required to report annual quantities of anthropogenic non-mobile source greenhouse gases emitted at the stationary source, and shall not be required to report biogenic emissions of greenhouse gases.

**[45CSR§42-4.2., State-Enforceable only.]**

- c. Reports of greenhouse gas emissions submitted to the Secretary under 45CSR§42-4. shall be signed by a responsible official and shall include the following certification statement: “I, the undersigned, hereby certify that the data transmitted to the West Virginia Department of Environmental Protection is true, accurate, and complete, based upon information and belief formed after reasonable inquiry.

**[45CSR§42-4.5., State-Enforceable only.]**

### **3.6. Compliance Plan**

N/A

### **3.7. Permit Shield**

- 3.7.1. The permittee is hereby granted a permit shield in accordance with 45CSR§30-5.6. The permit shield applies provided the permittee operates in accordance with the information contained within this permit.

- 3.7.2. The following requirements specifically identified are not applicable to the source based on the determinations set forth below. The permit shield shall apply to the following requirements provided the conditions of the determinations are met.

45CSR27 – To Prevent and Control the Emissions of Toxic Air Pollutants

The emissions of toxic air pollutants at the facility are lower than the threshold values in 45CSR27 Table A, so the facility is not subject to Best Available Technology requirements.

45CSR34 - 40 C. F. R. Part 63, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Reciprocating Internal Combustion Engines

The Union Carbide Corporation’s Technology Park Operations Building 6000 diesel fuel generators are for emergency use and are exempt from rule provisions.

40 C.F.R. Part 64 - The Union Carbide Corporation’s Technology Park Operations Environmental Operations and Shared Services/Energy Systems are not subject to the Compliance Assurance Monitoring (CAM) rule because the Group 2 of 3 Permit has no emission sources with a precontrol device PTE of 100TPY of any criteria pollutant.

## 4.0 Source-Specific Requirements [Shared Services/Energy Systems]

### 4.1. Limitations and Standards

- 4.1.1. Diesel fuel will be burned as the primary fuel in the two (2) emergency electricity generators.  
[45CSR13, Permit No. R13-2082 - (Condition A.1.) (GV7, GV8)]
- 4.1.2. The maximum sulfur content for the diesel fuel to be burned in the generator engines shall not exceed 0.5%.  
[45CSR13, Permit No. R13-2082 - (Condition A.2.) (GV7, GV8)]
- 4.1.3. The maximum diesel fuel feed rate to each generator engine shall not exceed 74.1 gallons per hour.  
[45CSR13, Permit No. R13-2082 - (Condition A.3.) (GV7, GV8)]
- 4.1.4. Operation of the two generators is to be limited to 750 hours per year per generator.  
[45CSR13, Permit No. R13-2082 - (Condition A.4.) (GV7, GV8)]
- 4.1.5. The maximum allowable emissions to the atmosphere from the electricity generators are not to exceed the following limitations:

Regulated Pollutant	Maximum Emission Rate			
	Generator No. 1 (Emission Point ID No. GV7)		Generator No. 2 (Emission Point ID No. GV8)	
	(lb/hr)	(ton/yr) <sup>1</sup>	(lb/hr)	(ton/yr) <sup>1</sup>
CO	6.11	2.29	6.11	2.29
Hydrocarbons	1.14	0.43	1.14	0.43
NO <sub>x</sub>	38.07	14.28	38.07	14.28
PM	0.78	0.29	0.78	0.29
PM <sub>10</sub>	0.58	0.22	0.58	0.22
SO <sub>2</sub>	5.13	1.92	5.13	1.92

(1) Based on 750 hours of operation per year.

[45CSR13, Permit No. R13-2082 - (Condition A.5.) (GV7, GV8)]

### 4.2. Monitoring Requirements

N/A

### 4.3. Testing Requirements

N/A

#### **4.4. Recordkeeping Requirements**

- 4.4.1. For the purpose of determining compliance with the maximum allowable sulfur limit established in Condition 4.1.2, the permittee shall require the fuel supplier to certify in writing that each shipment of diesel fuel to be combusted in the emergency generator engines contain a sulfur content of 0.5% or less. Such sulfur content certification records shall be maintained on-site for a period of no less than five (5) years.  
**[45CSR13, Permit No. R13-2082 - (Condition B.1.) (GV7, GV8)]**
- 4.4.2. For the purpose of determining compliance with the maximum emission rate limits established in Condition 4.1.5 and the maximum fuel usage limits established for the generator engines in Condition 4.1.3, the permittee shall maintain accurate monthly records using the sample record keeping form given in ATTACHMENT 1, or its equivalent. Within fifteen (15) days after the end of the calendar month, the Production Leader or EHS Delivery Leader shall initial and date each monthly record attesting to the accuracy and completeness of the data recorded. These records shall be maintained onsite for a period of no less than five (5) years, and upon request by the Director or his or her duly authorized representative, certified copies of these records, signed by the Responsible Official, shall be provided to the Division of Air Quality (DAQ).  
**[45CSR13, Permit No. R13-2082 - (Condition B.2.) (GV7, GV8)]**
- 4.4.3. All power interruptions which require the utilization of either one (1) or both of the emergency electricity generators herein permitted shall be documented using the sample record keeping forms given in ATTACHMENTS 1 and 2, or their equivalent. Scheduled testing of the emergency generators shall be documented using the sample record keep forms given in ATTACHMENT 3, or its equivalent. Within fifteen (15) days after the end of the reporting period specified for each attachment, the Production Leader or EHS Delivery Leader shall initial and date the record attesting to the accuracy and completeness of the data recorded. These records shall be maintained on site for a period of no less than five (5) years, and upon request by the Director or his or her duly authorized representative, certified copies of these records, signed by the Responsible Official, shall be provided to the Division of Air Quality (DAQ). The permittee may propose to the Director a different record keeping format than described in the attachments.  
**[45CSR13, Permit No. R13-2082 - (Condition B.3.) (GV7, GV8)]**

#### **4.5. Reporting Requirements**

N/A

#### **4.6. Compliance Plan**

N/A



## **5.0 Source-Specific Requirements [Environmental Operations]**

### **5.1. Limitations and Standards**

- 5.1.1. No person shall cause, suffer, allow or permit any manufacturing process or storage structure generating fugitive particulate matter to operate that is not equipped with a system, which may include, but not be limited to, process equipment design, control equipment design or operation and maintenance procedures, to minimize the emissions of fugitive particulate matter. To minimize means such system shall be installed, maintained and operated to ensure the lowest fugitive particulate matter emissions reasonably achievable.  
**[45CSR§7-5.1 (Holz Impoundment)]**
- 5.1.2. The owner or operator of a plant shall maintain particulate matter control of the plant premises, and plant owned, leased or controlled access roads, by paving, application of asphalt, chemical dust suppressants or other suitable dust control measures. Good operating practices shall be implemented and when necessary particulate matter suppressants shall be applied in relation to stockpiling and general material handling to minimize particulate matter generation and atmospheric entrainment.  
**[45CSR§7-5.2 (Holz Impoundment)]**
- 5.1.3. Compliance with Condition 5.1.2 shall be demonstrated by maintaining paved or graveled roads to the impoundment area. Trucks hauling bottom ash to the impoundment area shall be covered.  
**[45CSR§30-5.1.c (Holz Impoundment)]**
- 5.1.4. 731 Gasoline Powered Water Pump - The Permittee shall comply with all applicable requirements of 40 CFR 63, Subpart ZZZZ, Stationary Reciprocating Internal Combustion Engines by October 19, 2013.  
**[40CFR§63.6595, 45CSR§30-5.1. (EPP)]**
- 5.1.5. The permittee shall submit an Initial Notification as described in 40CFR§63.6645 on or prior to February 16, 2011.  
**[40CFR§63.6645, 45CSR§30-5.1. (EPP)]**

### **5.2. Monitoring Requirements**

N/A

### **5.3. Testing Requirements**

N/A

### **5.4. Recordkeeping Requirements**

N/A

### **5.5. Reporting Requirements**

N/A

### **5.6. Compliance Plan**

N/A

**ATTACHMENT 1**  
**UNION CARBIDE CORPORATION;**  
**R13-2082A; Plant ID No.: 0390004**  
**MONTHLY EMERGENCY GENERATOR**  
**NO. 2 FUEL OIL USAGE LOGSHEET <sup>(1)(2)(3)</sup>**

Month/Year: \_\_\_\_\_ Engine No.: 1 (GV7) / 2(GV8) (circle one)

Day	No. 2 Fuel Oil Usage			Reason Generator Was Placed Into Service
	(gal/day)	(hrs/day) Operation	(avg gal/hr) <sup>(4)</sup>	
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
Total				

- (1) The CERTIFICATION OF DATA ACCURACY statement appearing on the reverse side of this form must be completed upon written request of the Director or his duly-authorized representative.
- (2) This record shall be maintained onsite for a period of no less than five (5) years from the last date for which data was recorded. It shall be made available, upon request, to the Director or his (her) authorized representative.
- (3) The Production Leader or EHS Delivery Leader is required to initialize the reporting form within fifteen (15) days from the end of the calendar month.
- (4) Calculated by dividing the gal. of No. 2 fuel oil consumed in a day (gal/day) by the number of hours per day the emergency generator engine burned No. 2 fuel oil (hrs/day). See **SPECIFIC REQUIREMENT A.3.** of the permit for maximum hourly consumption rate of No. 2 fuel oil.

## ATTACHMENT 2

**UNION CARBIDE CORPORATION**  
**R13-2082A; Plant ID No.: 0390004**  
**ANNUAL EMERGENCY GENERATOR**  
**Hours of Operation<sup>(1)(2)(3)</sup>**

YEAR: \_\_\_\_\_ Engine No.: 1 (GV7) / 2 (GV8) (circle one)

Month	Hours of Emergency Generator Operation		Initials <sup>(3)</sup>
	Current Month	YTD	Current Month
January			
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			
<b>Total</b>			

- (1) The CERTIFICATION OF DATA ACCURACY statement appearing on the reverse side of this form must be completed upon written request of the Director or his duly-authorized representative.
- (2) This record shall be maintained onsite for a period of no less than five (5) years from the last date for which data was recorded. It shall be made available, upon request, to the Director or his (her) authorized representative.
- (3) The Production Leader or EHS Delivery Leader is required to initial the reporting form within fifteen (15) days from the end of the calendar month.

### ATTACHMENT 3

**UNION CARBIDE CORPORATION**  
**R13-2082A; Plant ID No.: 0390004**  
**EMERGENCY GENERATOR ENGINE**  
**Hours of Operation For Testing Purposes<sup>(1)(2)</sup>**

YEAR: \_\_\_\_\_ Engine No.: 1 (GV7) / 2 (GV8) (circle one)

Month	No. Operation Hours for Scheduled Testing		Initials <sup>(3)</sup>
	Current Month	YTD	Current Month
January			
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			
<b>Total</b>			

- (1) The CERTIFICATION OF DATA ACCURACY statement appearing on the reverse side of this form must be completed upon written request of the Director or his duly-authorized representative.
- (2) This record shall be maintained onsite for a period of no less than five (5) years from the last date for which data was recorded. It shall be made available, upon request, to the Director or his (her) authorized representative.
- (3) The Production Leader or EHS Delivery Leader is required to initialize the reporting form within fifteen (15) days from the end of the calendar month.